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# Names and Authors Used for Fungi at the Great Lakes Forestry Centre

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## THE GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

Forestry problems are continually assessed by the Canada-Ontario Joint Forestry Research Committee, made up chiefly of senior members of the Centre and the Ontario Ministry of Natural Resources. The Committee ensures that the research resources of both agencies are effectively transmitted to the forest managers in order to improve forest production and protection, and the quality of the environment.

Staff of the forestry development program negotiate and administer federal-provincial cost-sharing agreements with the province of Ontario, conduct economic studies, and implement job creation programs in the forest sector. Again, this requires close cooperation with the Ontario Ministry of Natural Resources and with other provincial and federal agencies concerned with the forest sector.

Close working relations are also maintained by the Centre with educational institutions specializing in forestry and the biological sciences, with the forest industry, and with other forestry organizations in the province.

The Centre recognizes that forested land must be managed in the best public interest, not only for the wood production essential to our economy but also for the recreational purposes that are so important to our social well-being. These goals must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

## FOREWORD

This list has been prepared to serve as a guide to names and authors of those fungi commonly encountered by the Field Technicians of the Forest Insect and Disease Survey Unit at the Great Lakes Forestry Centre. Pathologists and others who have to deal with fungal nomenclature should also find this guide useful. Many recent changes in the names of fungi, as well as changes to the International Code of Botanical Nomenclature made at the XIII International Botanical Congress, are reflected in this list. Perhaps most noteworthy is the use of : in place of ex with names sanctioned by Fries (:Fr.) or Person (:Pers.).

The common names used are based on those presented in *Names of Plant Diseases in Canada* (Anon. 1975. Agriculture Quebec, Publ. QA38-R4-1, 2nd ed.), but some have been modified by the addition of a host or fungal genus. Hosts listed are those recognized in Ontario and the common names are those used in *Native Trees of Canada* (R.C. Hosie, 1979 Fitzhenry & Whiteside Ltd. in coop. with Can. For. Serv., 8th ed.). Teleomorphs (the perfect or sexual state) have been included where known and should be used in reports in preference to the name given to the anomorph (the imperfect or asexual state). The author abbreviations are those presented in *Recommended Abbreviations for the Names of Some Commonly Cited Authors of Fungi* (D.L. Hawksworth, 1980. Rev. Pl. Path. 59(II)D:473-480). Three indices, one using the recommended name first and accompanied by the more common synonyms, a second listing the synonyms first and accompanied by the recommended name, and a third listing common names and accompanied by the recommended Latin binomial are included. The synonyms are those in common use; many older synonyms have been omitted. Those fungi found in the tables of synonymy are indicated by an asterisk. Two lined, blank pages have been provided so that additional fungi or corrections can be listed.

We recognize that not all mycologists or pathologists will agree with our choice of names and we welcome any suggestions or corrections you wish to make. If you believe that we are in error, we would appreciate it if you would provide a reference as well as what you think the correct name should be. Also, if you think that some fungi should be added to future additions, we would welcome your suggestions. A second edition of this list will be produced in two or three years so all comments will be useful.

The authors would like to express their appreciation to the laboratory staff of the Mycology Section of the Forest Insect and Disease Survey Unit who assisted with this project in so many ways. Special thanks go to Dr. J. Ginns of the Biosystematics Research Institute in Ottawa for answering our many questions and for reviewing many of these names and authors.

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Cover photo: Tar spot, *Rhytisma acerinum* (Pers.) Fr., on red maple (*Acer rubrum* L.).

# PART I

## MAIN ENTRIES*

* Listed in alphabetical order by scientific name

| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Apiognomonia quercina* (Kleb.) Höhnel*[a] | A | oaks | anthracnose | |
| *Apiognomonia veneta* (Sacc. & Speg.) Höhnel* | A | sycamore | anthracnose | |
| *Apiosporina collinsii* (Schwein.) Höhnel | A | serviceberries | apiosporina witches' broom | |
| *Apiosporina morbosa* (Schwein.) v. Arx* | A | cherries, plums | black knot | |
| *Arceuthobium americanum* Nutt. ex Engel. | N/A | jack pine, black spruce | dwarf mistletoe | |
| *Arceuthobium pusillum* Peck | N/A | spruces, esp. black spruce | eastern dwarf mistletoe | |
| *Armillaria mellea* (Vahl : Fr.) Kummer* | B | hardwoods and conifers | armillaria root rot | |
| *Ascocalyx abietina* (Lagerb.) Schläpfer - Bernhard* | A | N. Amer. race--pines<br>Eur. race--pines, spruces, firs, larches | scleroderris canker | |
| *Ascocoryne sarcoides* (Jacq. ex Gray) J.W. Groves & D. Wilson | A | spruces | pink stain | |
| *Asterosa caryae* (Peck) B. Sutton* | D | hickories | leaf spot of hickory | *Gnomonia caryae* var. *caryae* |
| *Asterosa fraxini* (Berk. & M.A. Curtis) Petrak* | D | ashes | leaf spot of ash | *Mycosphaerella effigurata* |
| *Atopospora betulina* (Fr.) Petrak | A | birch | leaf spot | |
| *Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof* | D | maples | anthracnose | |
| *Aureobasidium pullulans* (de Bary) Arnaud* | D | cosmopolitan | pullularia | |
| *Bifusella linearis* (Peck) Höhnel* | A | eastern white pine | needle cast | |
| *Bjerkandera fumosa* (Fr.) Karsten* | B | hardwoods, rare on conifers | white rot of hardwoods | |
| *Blumeriella jaapii* (Rehm) v. Arx* | A | cherries and plums | shot-hole | |
| *Botryodiplodia hypodermia* (Sacc.) Petrak | D | elms | elm canker | |
| *Botryosphaeria stevensii* R. Shoem. | A | elms, other hardwoods | twig dieback | |
| *Botryotinia fuckeliana* (de Bary) Whetzel* | A | nursery stock and house plants | gray mold | |
| *Botrytis cinerea* Pers. : Fr. | D | nursery stock and house plants | gray mold | *Botryotinia fuckeliana* |

[a] All entries with an asterisk are listed in the indices of synonymy.
[b] classification by subdivision, A = Ascomycotina; B = Basidiomycotina; D = Deuteromycotina; N/A = organisms other than fungi.

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| ***Brunchorstia pinea*** (P. Karsten) Höhnel | D | N. Amer. race--pines<br>Eur. race--pines, firs, spruces, larches | scleroderris canker | *Ascocalyx abietina* |
| ***Bursaphelenchus xylophilus*** (Steiner & Buhrer) Nickle* | N/A | pines, larches | pinewood nematode | |
| ***Caliciopsis pinea*** Peck | A | eastern white pine | caliciopsis canker | |
| ***Calonectria kyotensis*** Terashita | A | conifer, nursery stock | root rot | |
| ***Canangium ferruginosum*** Fr. : Fr. | A | jack pine, Scots pine | twig blight | |
| ***Ceratocystis coerulescens*** (Münch) Bakshi | A | hardwoods and conifers | sap streak | |
| ***Ceratocystis ulmi*** (Buism.) C. Moreau* | A | elms | Dutch elm disease | |
| ***Chalara ungeri*** Sacc. | D | hardwoods and conifers | sap streak | *Ceratocystis coerulescens* |
| ***Chlorosplenium aeruginascens*** (Nyl.) Karsten | A | rotting wood, esp. oak | green stain | |
| ***Chrysomyxa arctostaphyli*** Dietel | B | spruces<br>alt. bearberry | spruce broom rust | |
| ***Chrysomyxa ledi*** (Alb. & Schwein.) de Bary<br>var. ***ledi***<br>var. ***cassandrae*** (Peck & G.P. Clinton) Savile | B | spruces<br>alt. Labrador tea<br>alt. on leatherleaf | spruce needle rust | |
| ***Chrysomyxa ledicola*** (Peck) Lagerh. | B | spruces<br>alt. Labrador tea | spruce needle rust | |
| ***Chrysomyxa pirolata*** (Körn.) Winter | B | spruces<br>alt. pyrolas | spruce cone rust | |
| ***Ciborinia whetzelii*** (Seaver) Seaver | A | trembling aspen | ink spot of aspen | |
| ***Cladosporium humile*** J. Davis | D | maples | maple leaf spot | *Venturia acerina* |
| ***Coccomyces strobi*** J. Reid & Cain | A | eastern white pine and red pine | coccomyces canker | |
| ***Coleosporium asterum*** (Dietel) Sydow* | B | pines<br>alt. goldenrods, asters | pine needle rust | |
| ***Coleosporium pinicola*** (Arthur) Arthur | B | jack pine | pine needle rust | |
| ***Coleosporium viburni*** Arthur | B | jack pine<br>alt. viburnums | pine needle rust | |
| ***Colletotrichum crassipes*** (Speg.) v. Arx | D | willows | black canker of willow | *Glomerella miyabeana* |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Coniophora puteana* (Schumacher : Fr.) Karsten | B | conifers and hardwoods | brown rot | |
| *Cordana pauciseptata* Preuss | D | maples, birches, spruces, balsam fir | blue stain | |
| *Cornicularíella spina* (Berk. & Rav.) DiCosmo | D | hardwoods, esp. ashes | canker | *Durandiella fraxini* |
| *Coryne dubia* (Pers.) Gray | D | spruces | pink stain | *Ascoryne sarcoides* |
| *Coryneum umbonatum* Nees ex Steudel* | D | oaks | twig and shoot blight | *Pseudovalsa longipes* |
| *Cronartium coleosporioides* Arthur f.sp. *coleosporioides* | B | pines<br>alt. Indian paint brush | orange stalactiform blister rust | |
| *Cronartium comandrae* Peck | B | pines<br>alt. bastard toad flax and northern bastard toad flax | comandra blister rust | |
| *Cronartium comptoniae* Arthur | B | pines<br>alt. sweet gale, sweet fern | sweet fern blister rust | |
| *Cronartium quercuum* (Berk.) Miyabe ex Shirai f. sp. *banksianae* | B | pines--jack pine, Scots pine<br>alt. oaks | eastern gall rust | |
| *Cronartium ribicola* J.C. Fischer | B | eastern white pine<br>alt. currants, gooseberries | white pine blister rust | |
| *Cryptodiaporthe hystrix* (Tode) Petrak | A | maples | maple dieback | |
| *Cryptodiaporthe populea* (Sacc.) Butin* | A | poplars | poplar canker | |
| *Cryptodiaporthe salicella* (Fr.) Petrak | A | willows | willow dieback | |
| *Cryptoporus volvatus* (Peck) Hubbard* | B | conifers | trunk rot | |
| *Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter* | A | pines--Austrian, Scots and mugho | needle cast | |
| *Cyclaneusma niveum* (Pers. : Fr.) DiCosmo Peredo & Minter* | A | pines | needle cast | |
| *Cylindrocladium floridanum* Sob. & C.P. Seym. | D | conifer nursery stock | root rot | *Calonectria kyotensis* |
| *Cylindrosporella betulae-papyriferae* (Dearn. & Overh.) v. Arx | D | paper birch | birch leaf spot | |
| *Cylindrosporium juglandis* Wolf | D | black walnut | walnut leaf spot | *Mycosphaerella juglandis* |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Cytospora annulata* Ell. & Ev. | D | maples | cytospora canker | *Valsa ambiens* spp. *leucostomoides* |
| *Cytospora chrysosperma* (Pers. : Fr.) Fr. | D | poplars, willows | cytospora canker | *Valsa sordida* |
| *Cytospora cincta* Sacc. | D | mountain-ash, cherries | branch canker | *Leucostoma cincta* |
| *Cytospora kunzei* Sacc. | D | spruces, tamarack | cytospora canker | *Leucostoma kunzei* |
| *Cytospora leucosperma* (Pers. : Fr.) Fr. | D | hardwoods | cytospora canker | *Valsa ambiens* spp. ambiens |
| *Cytospora leucostoma* (Pers. : Fr.) Fr.* | D | alders | cytospora canker | *Leucostoma persoonii* |
| *Cytospora nivea* (Hoffm.) Fr.* | D | willows, poplars | cytospora canker | *Leucostoma nivea* |
| *Cytospora pinastri* Fr.* | D | balsam fir | needle blight | *Valsa friesii* |
| *Cytospora pini* Desm. | D | eastern white pine | cytospora canker | *Valsa pini* |
| *Cytospora pruinosa* (Fr.) Sacc.* | D | white ash | cytospora canker | *Valsa cypri* |
| *Cytosporina ludibunda* (Sacc.) Sacc. | D | white elm | twig canker | |
| *Davisomycella ampla* (J. Davis) Darker* | A | jack pine | tar spot needle cast | |
| *Delphinella balsameae* (Waterman) E. Müller* | A | balsam fir | delphinella tip blight | |
| *Dermea balsamea* (Peck) Seaver | A | balsam fir, hemlock | dermea twig canker | |
| *Didymascella thujina* (E. Durand) Maire* | A | cedars | keithia needle blight | |
| *Didymochora betulina* Höhnel | D | birch | leaf spot | *Atopospora betulina* |
| *Diplodia mutila* (Fr.) Mont. | D | elms and other hardwoods | diplodia twig dieback | *Botryosphaeria stevensii* |
| *Diplodia tumefaciens* (Shear) Zalasky* | D | poplars | rough bark | *Keissleriella emergens* |
| *Diplodina acerina* (Pass.) B. Sutton* | D | maples | diplodina leaf spot | *Cryptodiaporthe hystrix* |
| *Diplodina microsperma* (Johnston) B. Sutton* | D | willows | dieback | *Cryptodiaporthe salicella* |
| *Discosporium populeum* (Sacc.) B. Sutton* | D | poplars | canker and dieback | *Cryptodiaporthe populea* |
| *Discula betulina* (Westend.) v. Arx* | D | birches | anthracnose | |
| *Discula campestris* (Pass.) v. Arx* | D | maples | anthracnose | |
| *Discula platani* (Peck) Sacc.* | D | sycamore | anthracnose | *Apiognomonia venata* |
| *Discula quercina* (Westend.) v. Arx* | D | oaks | anthracnose | *Apiognomonia quercina* |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Dothiorella quercina* (Cooke & Ell.) Sacc. | D | red oaks | canker and dieback | |
| *Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton[c] var. *septospora** | D | Austrian pine | red band disease | *Mycosphaerella pini* |
| *Drepanopeziza populi-albae* (Kleb.) Nannf. | A | poplars | poplar leaf spot | |
| *Drepanopeziza populorum* (Desm.) Höhnel | A | poplars | poplar leaf spot | |
| *Durandiella fraxini* (Schwein. : Fr.) Seaver | A | hardwoods, esp. ashes | canker, branch dieback | |
| *Endocronartium harknessii* (J.P. Moore) Y. Hirats. | B | pines | western gall rust | |
| *Erwinia amylovora* (Burr.) Winslow et al.[d] | N/A | mountain-ash, apples, flowering crabs | fire blight | |
| *Eutypella parasitica* Davidson & Lorenz | A | sugar maple | eutypella canker | |
| *Fomes fomentarius* (Fr.) Kickx | B | hardwoods | white mottled rot | |
| *Fomitopsis pinicola* (Swartz : Fr.) Karsten* | B | hardwoods and conifers | brown crumbly rot | |
| *Foveostroma abietinum* (Peck) DiCosmo* | D | balsam fir, hemlock, eastern white pine | twig canker | *Dermea balsamea* |
| *Ganoderma applanatum* (Pers.) Pat.* | B | hardwoods, occasional on conifers | white mottled rot | |
| *Ganoderma lucidum* (Curt. : Fr.) Karsten* | B | hardwoods, conifers | root and butt rot | |
| *Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten* | B | spruces, pines | brown cubical rot | |
| *Glomerella miyabeana* (Fukushi) v. Arx* | A | willows | black canker of willow | |
| *Gnomonia caryae* Wolf var. *caryae* | A | hickories | anthracnose | |
| *Gnomonia leptostyla* (Fr.) Ces. & de Not. | A | walnuts | anthracnose | |
| *Guignardia aesculi* (Peck) Stewart | A | horse-chestnut | leaf blotch | |
| *Gymnosporangium clavipes* (Cooke & Peck) Cooke & Peck | B | junipers, alt. hawthorns, serviceberries | quince rust | |

[c] *D. septospora* var. *lineare* not currently found in Ontario.
[d] C.-E.A. Winslow as chairman of a committee on bacterial nomenclature established by the Society of American Bacteriologists.

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Gymnosporangium cornutum* Arthur ex Kern | B | junipers, alt. mountain-ash | gall rust | |
| *Gymnosporangium globosum* Farlow | B | junipers, alt. hawthorns | globose gall rust | |
| *Gymnosporangium juniperi-virginianae* Schwein. | B | junipers<br>alt. apples | cedar-apple rust | |
| *Heterobasidion annosum* (Fr.) Bref.* | B | conifers | fomes root rot | |
| *Hypodermella laricis* Tubeuf | A | larches | larch needle cast | |
| *Hypoxylon cohaerens* Pers. : Fr. | A | beech | canker and dieback | |
| *Hypoxylon mammatum* (Wahlenb.) J. Miller* | A | maples, poplars, yellow birch | hypoxylon canker | |
| *Inonotus circinatus* (Fr.) Gilbertson* | B | conifers | circinatus root rot | |
| *Inonotus obliquus* (Pers. : Fr.) Pilát* | B | birches | white spongy rot | |
| *Inonotus tomentosus* (Fr.) Gilbertson* | B | conifers | tomentosus root rot | |
| *Irpex tulipiferae* (Schwein.) Fr.* | B | hardwoods | white sap rot | |
| *Ischnoderma resinosum* (Schrader : Fr.) Karsten* | B | hardwoods and conifers | trunk rot | |
| *Isthmiella crepidiformis* (Darker) Darker* | A | black spruce | needle cast | |
| *Isthmiella faullii* (Darker) Darker* | A | balsam fir | needle cast | |
| *Kabatiella borealis* (Ell. & Ev.) v. Arx* | D | poplars, willows | anthracnose | |
| *Kabatina thujae* A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx) Morelet<br>var. *thujae* | D | junipers, cedars | needle blight | |
| *Keissleriella emergens* (Karsten) Bose | A | poplars | rough bark | |
| *Lecanosticta acicola* (Thüm.) H. Sydow | D | pines | brown-spot needle blight | *Mycosphaerella dearnessii* |
| *Leucostoma cincta* (Fr.) Höhnel* | A | mountain-ash, cherries | branch canker | |
| *Leucostoma kunzei* (Fr.) Munk | A | tamarack, spruces, eastern white pine | cytospora canker | |
| *Leucostoma nivea* (Hoffm. : Fr.) Höhnel | A | willows, poplars | cytospora canker | |
| *Leucostoma persoonii* (Nitschke) Höhnel | A | alders | cytospora canker | |
| *Linospora arctica* Karsten var. *helvetica* Rehm | A | willows | linospora leaf blight | |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Linospora tetraspora* G.E. Thompson | A | balsam poplar | linospora leaf blight | |
| *Lirula mirabilis* (Darker) Darker* | A | balsam fir | needle cast | |
| *Lirula nervata* (Darker) Darker* | A | balsam fir | needle cast | |
| *Lophodermella montivaga* Petrak* | A | pines | needle cast | |
| *Lophodermella sulcigena* (Rostrup) Höhnel* | A | pines | needle cast | |
| *Lophodermium australe* Dearn. | A | pines | needle cast | |
| *Lophodermium conigenum* (Brunaud) Hilitz. | A | pines | needle cast | |
| *Lophodermium juniperinum* (Fr.) de Not.* | A | junipers | needle cast | |
| *Lophodermium nitens* Darker | A | white and red pine seedlings | needle cast | |
| *Lophodermium piceae* (Fuckel) Höhnel | A | spruces | needle cast | |
| *Lophodermium pinastri* (Schrader : Fr.) Chev. | A | pines | needle cast | |
| *Lophodermium seditiosum* Minter, Staley & Millar | A | pines | needle cast | |
| *Lophophacidium dooksii* Corlett & R. Shoem. | A | eastern white pine | needle blight | |
| *Lophophacidium hyperboreum* Lagerb. | A | spruces | snow blight | |
| *Marssonina brunnea* (Ell. & Ev.) Magnus* | D | poplars | marssonina leaf spot | |
| *Marssonina castagnei* (Desm. & Mont.) Magnus* | D | poplars | marssonina leaf spot | *Drepanopeziza populi-albae* |
| *Marssonina juglandis* (Lib.) Magnus | D | hickories, walnuts | hickory leaf spot | *Gnomonia leptostyla* |
| *Marssonina populi* (Lib.) Magnus* | D | poplars | marssonina leaf spot | *Drepanopeziza populorum* |
| *Marssonina rhabdospora* (Ell. & Ev.) Magnus | D | poplars | marssonina leaf spot | *Pleuroceras populi* |
| *Massaria inquinans* (Tode : Fr.) de Not.* | A | sugar maple | leaf spot | |
| *Melampsora abieti-caprearum* Tubeuf | B | balsam fir, alt. willows | fir-willow, rust | |
| *Melampsora abietis-canadensis* C.A. Ludwig ex Arthur | B | eastern hemlock, alt. poplars | hemlock-poplar rust | |
| *Melampsora epitea* Thüm. | B | eastern hemlock, alt. willows | hemlock-willow rust | |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Melampsora medusae* Thüm.* | B | tamarack, alt. poplars | larch-poplar rust | |
| *Melampsora paradoxa* Dietel & Holway | B | tamarack, alt. willows | larch-willow rust | |
| *Melampsorella caryophyllacearum* Schröter | B | balsam fir | fir broom rust | |
| *Melasmia acerina* Lév. | D | maples | tar spot | *Rhytisma acerinum* |
| *Melasmia punctata* Sacc. & Roum. | D | maples | speckle tar spot | *Rhytisma punctatum* |
| *Melasmia salicina* Lév. | D | maples | tar spot | *Rhytisma salicinum* |
| *Meria laricis* Vuill. | D | European larch | larch needle cast | |
| *Microstroma juglandis* (Bereng.) Sacc. | D | hickories, walnuts, butternut | white mold | |
| *Monilinia fructicola* (Winter) Honey* | A | cherries | brown rot | |
| *Monostichella robergei* (Desm.) Höhnel* | D | blue beech | leaf spot | *Sphaerognomonia carpinea* |
| *Monostichella salicis* (Westend.) v. Arx* | D | willows | black canker | |
| *Mycosphaerella dearnessii* Barr* | A | pines | brown-spot needle blight | |
| *Mycosphaerella effigurata* (Schwein.) House | A | ashes | ash leaf spot | |
| *Mycosphaerella juglandis* Kessler | A | black walnut | walnut leaf spot | |
| *Mycosphaerella pini* Rostrup | A | Austrian pine | red band disease | |
| *Mycosphaerella populicola* G.E. Thompson | A | balsam poplar, other poplars | septoria leaf spot | |
| *Mycosphaerella populorum* G.E. Thompson | A | balsam poplar, exotics and hybrids | septoria leaf spot | |
| *Nectria cinnabarina* (Tode : Fr.) Fr.* | A | hardwoods | nectria canker | |
| *Nectria galligena* Bresad. | A | hardwoods | nectria canker | |
| *Nothophacidium abietinellum* (Dearn.) J. Reid & Cain* | A | balsam fir | snow blight | |
| *Oxyporus populinus* (Schumacher : Fr.) Donk* | B | maples and other hardwoods | white spongy rot | |
| *Pesotum ulmi* (Schwarz) Crane & Schoknecht* | D | elms | Dutch elm disease | *Ceratocystis ulmi* |
| *Phacidium abietis* (Dearn.) J. Reid & Cain* | A | conifers | snow blight | |

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| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| ***Phacidium balsamicola*** (Smerlis) DiCosmo, Nag Raj & Kendrick* | A | firs | snow blight | |
| ***Phacidium coniferarum*** (Hahn) DiCosmo, Nag Raj & Kendrick* | A | conifers | snow blight | |
| ***Phacidium infestans*** Karsten | A | conifers | snow blight | |
| ***Phaeocryptopus gaeumannii*** (Rohde) Petrak* | A | Douglas fir | Swiss needle cast | |
| ***Phaeolus schweinitzii*** (Fr.) Pat.* | B | hardwoods and conifers | brown cubical rot | |
| ***Phaeoramularia maculicola*** (Romell & Sacc.) B. Sutton* | D | poplars | leaf spot | |
| ***Phellinus everhartii*** (Ell. & Gall.) A. Ames* | B | hardwoods | white spongy rot | |
| ***Phellinus igniarius*** (L. : Fr.) Quélet* | B | hardwoods, esp. willows | white trunk rot | |
| ***Phellinus pini*** (Brot. : Fr.) A. Ames* | B | conifers | red ring rot | |
| ***Phellinus tremulae*** (Bondartsev)[c] Bondartsev & Borisov* | B | poplars | white trunk rot | |
| ***Phloeosporella padi*** (Lib.) v. Arx* | D | cherries and plums | shot-hole | *Blumeriella jaapii* |
| ***Phyllactinia guttata*** (Wallr. : Fr.) Lév. | A | hazelnut | powdery mildew | |
| ***Phyllosticta minima*** (Berk. & Curt.) Underw. & Earle | D | maples | leaf spot | |
| ***Phyllosticta negundinis*** Sacc. & Speg. | D | Manitoba maple | leaf spot | |
| ***Phyllosticta sphaeropsoidea*** Ell. & Ev.* | D | horse-chestnut | leaf blotch | *Guignardia aesculi* |
| ***Pleurocoeras populi*** G.E. Thompson | A | poplars | leaf spot | |
| ***Podosphaera clandestina*** (Wallr.: Fr.) Lév.* | A | serviceberries | powdery mildew | |
| ***Pollaccia elegans*** Servit | D | balsam poplar | shoot blight | *Venturia populina* |
| ***Pollaccia radiosa*** (Lib.) Bald. & Cif. | D | trembling aspen | shoot blight of aspen | *Venturia macularis* |
| ***Pollaccia saliciperda*** (Allescher & Tubeuf) v. Arx* | D | willows | willow scab | *Venturia salciciperda* |
| ***Pseudovalsa longipes*** (Tul.) Sacc. | A | oaks | twig and shoot blight | |

[c] Also as Bondarcev or Bondartsev.

(cont'd)

| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Pucciniastrum epilobii* Otth | B | balsam fir, alt. fireweed | fireweed rust | |
| *Pucciniastrum goeppertianum* (Kühn) Kleb. | B | balsam fir alt. blueberry | witches' broom on blueberry | |
| *Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten* | B | hardwoods, rarely conifers | white sap rot | |
| *Rhabdocline pseudotsugae* Sydow ssp. *pseudotsugae* | A | Douglas fir | rhabdocline needle cast | |
| *Rhisina undulata* Fr.* | A | conifers, esp. seedlings, follows burns | tea pot fungus | |
| *Rhizosphaera kalkhoffii* Bubák | D | spruces | needle blight | |
| *Rhizosphaera pini* (Corda) Maubl.* | D | balsam fir, spruces | needle blight | |
| *Rhytisma acerinum* (Pers.) Fr.* | A | maples | tar spot | |
| *Rhytisma punctatum* (Pers.) Fr. | A | maples | speckle tar spot | |
| *Rhytisma salicinum* (Pers.) Fr. | A | willows | tar spot | |
| *Sarcotrochila balsameae* (J. Davis) Korf* | A | balsam fir | snow blight | |
| *Sarcotrochila piniperda* (Rehm) Korf | A | spruces | snow blight | |
| *Schizophyllum commune* Vaill. : Fr. | B | hardwoods, some conifers | | |
| *Sclerophoma pythiophila* (Corda) Höhnel | D | pines, black spruce, junipers | needle blight | *Sydowia polyspora* |
| *Scoleconectria cucurbitula* (Tode : Fr.) C. Booth | A | pines, balsam fir | canker and dieback | |
| *Septoria aceris* (Lib.) Berk. & R. Br. | D | maples | septoria leaf spot | |
| *Septoria betulae* Pass.* | D | birches | leaf blight | |
| *Septoria musiva* Peck | D | poplars | septoria canker | *Mycosphaerella populorum* |
| *Septoria populicola* Peck | D | poplars, esp. balsam poplar | leaf spot | *Mycosphaerella populicola* |
| *Sirococcus conigenus* (DC.) P. Cannon & Minter* | D | pines, blue spruce | shoot blight | |
| *Sphaerognomonia carpinea* (Fr.) Potebnia | A | blue beech | leaf spot | |
| *Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton* | D | pines, usually Scots and Austrian | tip blight | |

(cont'd)

| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Spilocaea pomi* Fr. | D | apples, hawthorns, mountain-ash | apple scab | *Venturia inaequalis* |
| *Spiniger meineckellus* (A. Olson) Stalpers* | D | conifers, maples, chestnut, elms | fomes root rot | *Heterobasidion annosum* |
| *Stegonsporium acerinum* Peck* | D | maples | | |
| *Stegonsporium pyriforme* (Hoffm. : Fr.) Corda* | D | maples | | |
| *Sydowia polyspora* (Bref. & Thv.) E. Müller* | A | pines, black spruce, junipers | needle blight | |
| *Taphrina caerulescens* (Mont. & Desm.) Tul. | A | most oaks, not white oaks | leaf-blister | |
| *Taphrina communis* (Sadeb.) Gies. | A | cherries and plums | plum pockets | |
| *Therrya fuckelii* (Rehm) Kujala | A | pines | therrya canker | |
| *Trichoderma viride* Pers. : Fr. | D | cosmopolitan | trichoderma | |
| *Tubakia dryina* (Sacc.) B. Sutton* | D | principally oaks, but may be found on other hardwoods | leaf spot | |
| *Tubercularia vulgaris* Tode : Fr. | D | hardwoods | nectria canker | *Nectria cinnabarina* |
| *Tympanis hypopodia* Nyl. | A | jack pine, eastern white pine lodgepole pine | tympanis canker | |
| *Tyromyces balsameus* (Peck) Murrill* | B | conifers, esp. spruces and larches | brown cubical rot | |
| *Uncinula adunca* (Wallr. : Fr.) Lév.* | A | poplars, willows | powdery mildew | |
| *Valsa ambiens* (Pers. : Fr.) Fr. ssp. *ambiens* | A | hardwoods | cytospora canker | |
| *Valsa ambiens* (Pers. : Fr.) Fr. spp. *leucostomoides* (Peck) Spielman | A | maples | cytospora canker | |
| *Valsa cypri* (Tul.) Tul. & C. Tul.* | A | white ash | cytospora canker | |
| *Valsa friesii* (Duby) Fuckel | A | balsam fir | dieback | |
| *Valsa pini* Alb. & Schwein.: Fr. | A | eastern white pine | cytospora canker | |
| *Valsa sordida* Nitschke | A | poplars, willows | cytospora canker | |
| *Venturia acerina* Plakidas ex Barr | A | sugar maple, red maple | leaf spot | |
| *Venturia inaequalis* (Cooke) Winter* | A | apples, hawthorns, mountain ash | apple scab | |

(cont'd)

(concl.)

| Scientific name and author(s) | Subdivision[b] | Hosts | Common name | Teleomorph (if applicable) |
|---|---|---|---|---|
| *Venturia macularis* (Fr.) E. Müller & v. Arx* | A | trembling aspen | shoot blight | |
| *Venturia populina* (Vuill.) Fabric. | A | balsam poplar | shoot blight | |
| *Venturia saliciperda* Nüesch | A | willows | willow scab | |
| *Verticicladiella procera* Kendrick | D | red pine, eastern white pine | black root stain | |
| *Verticillium albo-atrum* Reinke & Berth. | D | hardwoods | verticillium wilt | |
| *Verticillium dahliae* Kleb. | D | hardwoods | verticillium wilt | |
| *Zythia aurantiaca* (Peck) Sacc. | D | dogwoods | canker | |
| *Zythiostroma pinastri* (Karsten) Höhnel | D | pines, balsam fir | canker and dieback | *Scoleconectria cucurbitula* |

Future Considerations:

*Pollaccia americana* Ondrej

*Pollaccia ramulosa* (Desm.) Ondrej

As suggested by M. Ondrej in "Ein Beitrag zur Kenntnis der parasitischen imperfekten Pilz der Gattung *Pollaccia* Bald. et Cif. an Rappeln (*Populus* spp.)" Eur. J. For. Path. 2 (1972) 140-146.

See also Morelet, M. 1985. Les *Venturis* des peupliers de la section *Leuce* I. - Taxinomie. Cryptog. Mycol. 6:101-117.

# PART II

## INDEX OF RECOMMENDED NAMES WITH THE MORE COMMON SYNONYMS

*Apiognomonia quercina* (Kleb.) Höhnel
syn. *Gnomonia quercina* Kleb.

*Apiognomonia veneta* (Sacc. & Speg.) Höhnel
syn. *Gnomonia venata* (Sacc. & Speg.) Kleb.
syn. *Gnomonia platani* Kleb.

*Apiosporina morbosa* (Schwein.) v. Arx
syn. *Dibotryon morbosum* (Schwein.) Theiss. & Syd.

*Armillaria mellea* (Vahl : Fr.) Kummer
syn. *Armillariella mellea* (Vahl : Fr.) P. Karsten

*Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard
syn. *Gremmeniella abietina* (Lagerb.) Morelet
syn. *Scleroderris lagerbergii* Gremmen

*Asteroma caryae* (Peck) B. Sutton
syn. *Cylindrosporella caryae* (Peck) Petrak

*Asteroma fraxini* (Berk. & M.A. Curtis) Petrak
syn. *Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev.

*Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof
syn. *Kabatiella apocrypta* (Ell. & Ev.) v. Arx

*Aureobasidium pullulans* (de Bary) Arnaud
syn. *Pullularia pullulans* (de Bary) Berkhout

*Bifusella linearis* (Peck) Höhnel
syn. *Hypoderma lineare* (Peck) Thüm.

*Bjerkandera fumosa* (Fr.) Karsten
syn. *Polyporus fumosus* (Fr.) Pers.

*Blumeriella jaapii* (Rehm) v. Arx
syn. *Coccomyces hiemalis* Higg.
syn. *Coccomyces prunophorae* Higg.

*Botryotinia fuckeliana* (de Bary) Whetzel
syn. *Sclerotinia fuckeliana* (de Bary) Fuckel

*Bursaphelenchus xylophilus* (Steiner & Buhrer) Nickle
syn. *Bursaphelenchus lignicolus* Mamiya & Kiyohara

*Ceratocystis ulmi* (Buism.) C. Moreau
syn. *Ophiostoma ulmi* (Buism.) Nannf.

*Coleosporium asterum* (Dietel) Sydow
syn. *Coleosporium solidiganis* Thüm.

*Coryneum umbonatum* Nees ex Steudel
syn. *Coryneum kunzei* Corda

*Cryptoporus volvatus* (Peck) Hubbard
syn. *Polyporus volvatus* Peck

*Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter
syn. *Naemacyclus minor* Butin

*Cyclaneusma niveum* (Pers. : Fr.) DiCosmo, Peredo & Minter
syn. *Naemacyclus niveus* (Pers. : Fr.) Fuckel ex Sacc.

*Cytospora leucostoma* (Pers. : Fr.) Fr.
syn. *Leucocytospora leucostoma* (Pers.) Höhnel

*Cytospora nivea* (Hoffm.) Fr.
syn. *Leucocytospora nivea* (Hoffm.) Kobayashi

*Cytospora pinastri* Fr.
syn. *Cytospora friesii* Sacc.

*Cytospora pruinosa* (Fr.) Sacc.
syn. *Cytophoma pruinosa* (Fr.) Höhnel

*Davisomycella ampla* (J. Davis) Darker
syn. *Hypodermella ampla* (J. Davis) Dearn.

*Delphinella balsameae* (Waterman) E. Müller
syn. *Rehmiellopsis balsameae* Waterman

*Didymascella thujiana* (E. Durand) Maire
syn. *Keithia thujina* E. Durand

*Diplodia tumefaciens* (Shear) Zalasky
syn. *Macrophoma tumefaciens* Shear

*Diplodina acerina* (Pass.) B. Sutton
syn. *Discella acerina* (Pass.) v. Arx

*Diplodina microsperma* (Johnston) B. Sutton
syn. *Discella carbonacea* (Fr.) Berk. & Broome

*Discosporium populeum* (Sacc.) B. Sutton
syn. *Dothichiza populea* Sacc. & Briard

*Discula betulina* (Westend.) v. Arx
syn. *Gloeosporium betulinum* Westend.

*Discula campestris* (Pass.) v. Arx
syn. *Gloeosporium campestre* Pass.

*Discula platani* (Peck) Sacc.
syn. *Gloeosporium platani* (Mont.) Oudem.

*Discula quercina* (Westend.) v. Arx
syn. *Gloeosporium quercinum* Westend.

*Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
syn. *Dothistroma pini* Hulb.

*Dothistroma septospora* (Dorog.) Morelet var. *septospora*
syn. *Dothistroma pini* Hulb.

*Fomitopsis pinicola* (Swartz : Fr.) Karsten
syn. *Fomes pinicola* (Swartz : Fr.) Cooke

*Foveostroma abietinum* (Peck) DiCosmo
syn. *Gelatinosporium abietinum* Peck

*Ganoderma applanatum* (Pers.) Pat.
syn. *Fomes applanatus* (Pers. ex Wallr.) C. Gillet
syn. *Polyporus applanatus* Gray

*Ganoderma lucidum* (Curt. : Fr.) Karsten
syn. *Ganoderma tsugae* Murrill

*Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten
syn. *Lenzites saepiaria* (Wulfen : Fr.) Fr.

*Glomerella miyabeana* (Fukushi) v. Arx
syn. *Physalospora miyabeana* Fukushi

*Heterobasidion annosum* (Fr.) Bref.
syn. *Fomes annosus* (Fr.) Karsten

*Hypoxylon mammatum* (Wahlenb.) J. Miller
syn. *Hypoxylon pruinatum* (Klozt.) Cooker

*Inonotus circinatus* (Fr.) Gilbertson
syn. *Polyporus circinatus* Fr.

*Inonotus obliquus* (Pers. : Fr.) Pilát
syn. *Poria obliqua* (Pers. : Fr.) Karsten

*Inonotus tomentosus* (Fr.) Gilbertson
syn. *Polyporus tomentosus* Fr.

*Irpex tulipiferae* (Schwein.) Fr.
syn. *Polyporus tulipiferae* (Schwein.) Overh.

*Ischnoderma resinosum* (Schrader : Fr.) Karsten
syn. *Polyporus resinosus* (Fr.) Schrader

*Isthmiella crepidiformis* (Darker) Darker
syn. *Bifusella crepidiformis* Darker

*Isthmiella faullii* (Darker) Darker
syn. *Bifusella faullii* Darker

*Kabatiella borealis* (Ell. & Ev.) v. Arx
syn. *Gloeosporium boreale* Ell. & Ev.

*Lirula mirabilis* (Darker) Darker
syn. *Hypodermella mirabilis* Darker

*Lirula nervata* (Darker) Darker
syn. *Hypodermella nervata* Darker

*Lophodermella montivaga* Petrak
syn. *Hypodermella montivaga* (Petrak) Dearn.

*Lophodermella sulcigena* (Rostrup) Höhnel
syn. *Hypodermella sulcigenum* (Rostrup) Tubeuf

*Lophodermium juniperinum* (Fr.) de Not.
syn. *Lophodermium juniperi* (Grev.) Darker

*Marssonina brunnea* (Ell. & Ev.) Magnus
syn. *Gloeosporium brunneum* Ell. & Ev.

*Marssonina castagnei* (Desm. & Mont.) Magnus
syn. *Gloeosporium castagnei* Desm. & Mont.

*Marssonina populi* Lib.
syn. *Leptothyrium populi* Lib.

*Massaria inquinans* (Tode : Fr.) de Not.
syn. *Sphaeria inquinans* (Tode) Fr.

*Melampsora medusae* Thüm.
syn. *Uredo medusae* (Thüm.) Arthur

*Monilinia fructicola* (Winter) Honey
syn. *Sclerotinia fructicola* (Winter) Rehm

*Monostichella robergei* (Desm.) Höhnel
syn. *Gloeosporium robergei* Desm.

*Monostichella salicis* (Westend.) v. Arx
syn. *Gloeosporium salicis* Westend.

*Mycosphaerella dearnessii* Barr
syn. *Scirrhia acicola* (Dearn.) Siggers

*Nectria cinnabarina* (Tode : Fr.) Fr.
syn. *Sphaeria cinnabarina* Tode

*Nothophacidium abietinellum* (Dearn.) J. Reid & Cain
syn. *Phacidium abietinellum* Dearn.

*Oxyporus populinus* (Schumacher : Fr.) Donk
syn. *Fomes connatus* (Weinm.) C. Gillet

*Pesotum ulmi* (Schwarz) Crane & Schoknecht
syn. *Graphium ulmi* Schwarz

*Phacidium abietis* (Dearn.) J. Reid & Cain
syn. *Phacidium infestans* Karsten var. *abietis* Dearn.

*Phacidium balsamicola* (Smerlis) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces balsamicola* Smerlis var. *balsamicola* Smerlis

*Phacidium coniferarum* (Hahn) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces coniferarum* (Hahn) Smerlis

*Phaeocryptopus gaeumannii* (Rohde) Petrak
syn. *Adelopus gaeumannii* Rhode

*Phaeolus schweinitzii* (Fr.) Pat.
syn. *Polyporus schweinitzii* Fr.

*Phaeoramularia maculicola* (Romell & Sacc.) B. Sutton
syn. *Cladosporium subsessile* Ell. & Barth.

*Phellinus everhartii* (Ell. & Gall.) A. Ames
syn. *Fomes everhartii* (Ell. & Gall.) von Schrenk & Spaulding

*Phellinus igniarius* (L. : Fr.) Quélet
syn. *Fomes igniarius* (L. : Fr.) Kickx

*Phellinus pini* (Brot. : Fr.) A. Ames
syn. *Fomes pini* (Thore : Fr.) Karsten

*Phellinus tremulae* (Bondartsev) Bondartsev & Borisov
syn. *Fomes igniarius* f. *tremulae* Bondartsev

*Phloesporella padi* (Lib.) v. Arx
syn. *Cylindrosporium hiemalis* Higg.
syn. *Cylindrosporium prunophorae* Higg.

*Phyllosticta sphaeropsoidea* Ell. & Ev.
syn. *Phyllostictina sphaeropsoidea* (Ell. & Ev.) Petrak

*Podosphaera clandestina* (Wallr. : Fr.) Lév.
syn. *Erysiphe clandestina* Wallr. : Fr.

*Pollaccia saliciperda* (Allescher & Tubeuf) v. Arx
syn. *Fusicladium saliciperdum* (Allescher & Tubeuf) Tubeuf

*Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten
syn. *Polyporus cinnabarinus* Jacq. : Fr.

*Rhizina undulata* Fr.
syn. *Rhizina inflata* P. Karsten

*Rhizosphaera pini* (Corda) Maubl.
syn. *Coniothyrium pini* Corda

*Rhytisma acerinum* (Pers.) Fr.
syn. *Xyloma acerinum* Pers.

*Sarcotrochila balsameae* (J. Davis) Korf
syn. *Phacidium balsameae* J. Davis

*Septoria betulae* Pass.
syn. *Septoria betulicola* Peck

*Sirococcus conigenus* (DC.) P. Cannon & Minter
syn. *Sirococcus strobilinus* Preuss

*Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton
syn. *Diplodia pinea* (Desm.) Kickx

*Spiniger meineckellus* (A.J. Olson) Stalpers
syn. *Oedocephalum lineatum* Bakshi
syn. *Oedocephalum meineckellus* (A.J. Olson) Donk

*Stegonsporium acerium* Peck
syn. *Stegonsporium pyriforme* (Hoffm. : Fr.) Corda

*Stegonsporium pyriforme* (Hoffm. : Fr.) Corda
syn. *Steganosporium ovatum* (Pers. ex Mérat) S. Hughes

*Sydowia polyspora* (Bref. & Tav.) E. Müller
syn. *Rehmiellopsis bohemica* Bubak and Kleb.

*Tubakia dryina* (Sacc.) B. Sutton
syn. *Actinopelte dryina* (Sacc.) Höhnel

*Tyromyces balsameus* (Peck) Murrill
syn. *Polyporus balsameus* Peck

*Uncinula adunca* (Wallr. : Fr.) Lév.
syn. *Uncinula salicis* (DC.) Winter

*Valsa cypri* (Tul.) Tul.
syn. *Valsa fraxinina* Peck

*Venturia inaequalis* (Cooke) Winter
syn. *Sphaerella inaequalis* Cooke

*Venturia macularis* (Fr.) E. Müller & v. Arx
syn. *Sphaeria macularis* Fr.

# PART III

## INDEX OF COMMON SYNONYMS OF RECOMMENDED NAMES

*Actinopelte dryina* (Sacc.) Höhnel
*Tubakia dryina* (Sacc.) B. Sutton

*Adelopus gaeumannii* Rhode
*Phaeocryptorus gaeumannii* (Rhode) Petrak

*Armillariella mellea* (Vahl : Fr.) P. Karsten
*Armillaria mellea* (Vahl : Fr.) Kummer

*Bifusella crepidiformis* Darker
*Isthmiella crepidiformis* (Darker) Darker

*Bifusella faullii* Darker
*Isthmiella faullii* (Darker) Darker

*Bursaphelenchus lignicolous* Mamiya & Kiyohara
*Bursaphelenchus xylophilus* (Steiner & Buhrer) Nickle

*Ciboria fructicola* Winter
*Monilinia fructicola* (Winter) Honey

*Cladosporium subsessile* Ell. & Barth.
*Phaeoramularia maculicola* (Romell & Sacc.) B. Sutton

*Coccomyces hiemalis* Higg.
*Blumeriella jaapii* (Rehm) v. Arx

*Coccomyces prunophorae* Higg.
*Blumeriella jaapii* (Rehm) v. Arx

*Coleosporium solidiganis* Thüm.
*Coleosporium asterum* (Dietel) Sydow

*Coniothyrium pini* Corda
*Rhizosphaera pini* (Corda) Maubl.

*Coryneum kunzei* Corda
*Coryneum umbonatum* Nees ex Steudel

*Cylindrosporella caryae* (Peck) Petrak
*Asteroma caryae* (Peck) B. Sutton

*Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev.
*Asteroma fraxini* (Berk. & M.A. Curtis) Petrak

*Cylindrosporium hiemalis* Higg.
*Phloesporella padi* (Lib.) v. Arx

*Cylindrosporium prunophorae* Higg.
*Phloesporella padi* (Lib.) v. Arx

*Cytophoma pruinosa* (Fr.) Höhnel
*Cytospora pruinosa* (Fr.) Sacc.

*Cytospora friesii* Sacc.
*Cytospora pinastri* Fr.

*Dibotryon morbosum* (Schwein.) Theiss. & Sydow
*Apiosporina morbosa* (Schwein.) v. Arx

*Diplodia pinea* (Desm.) Kickx
*Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton

*Discella acerina* (Pass.) v. Arx
*Diplodina acerina* (Pass.) B. Sutton

*Discella carbonacea* (Fr.) Berk. & Broome
*Diplodina microsperma* (Johnston) B. Sutton

*Dothichiza populea* Sacc. & Briard
*Discosporium populeum* (Sacc.) B. Sutton

*Dothistroma pini* Hulb.
*Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
*Dothistroma septospora* (Dorog.) Morelet var. *septospora*

*Erysiphe clandestina* Wallr. : Fr.
*Podosphaera clandestina* (Wallr. : Fr.) Lév.

*Fomes annosus* (Fr.) Karsten
*Heterobasidion annosum* (Fr.) Bref.

*Fomes applanatus* (Pers. ex Wallr.) C. Gillet
*Ganoderma applanatum* (Pers.) Pat.

*Fomes connatus* (Weinm.) G. Cunn.
*Oxyporus populinus* (Schumacher:Fr.) Donk

*Fomes everhartii* (Ell. & Gall.) von Schrenk & Spaulding
*Phellinus everhartii* (Ell. & Gall.) A. Ames

*Fomes igniarius* (L. : Fr.) Kickx
*Phellinus igniarius* (L.: Fr.) Quélet

*Fomes igniarius* f. *tremulae* Bondartsev
*Phellinus tremulae* (Bondartsev) Bondartsev & Borisov

*Fomes pini* (Thore : Fr.) Karsten
*Phellinus pini* (Brot. : Fr.) A. Ames

*Fomes pinicola* (Swartz : Fr.) Cooke
*Fomitopsis pinicola* (Swartz : Fr.) Karsten

*Fusicladium saliciperdum* (Allescher & Tubeuf) Tubeuf
*Pollacia saliciperda* (Allescher & Tubeuf) v. Arx

*Ganoderma tsugae* Murrill
*Ganodema lucidum* (Curt. : Fr.) Karsten

*Gelatinosporium abietinum* Peck
*Foveostroma abietinum* (Peck) DiCosmo

*Gloeosporium betulinum* Westend.
*Discula betulina* (Westend.) v. Arx

*Gloeosporium boreale* Ell. & Ev.
*Kabatiella borealis* (Ell. & Ev.) v. Arx

*Gloeosporium brunneum* Ell. & Ev.
*Marssonina brunnea* (Ell. & Ev.) Magnus

*Gloeosporium campestre* Pass.
*Discula campestris* (Pass.) v. Arx

*Gloeosporium castagnei* Desm. & Mont.
*Marssonina castagnei* (Desm. & Mont.) Magnus

*Gloeosporium platani* (Mont.) Oudem.
*Discula platani* (Peck) Sacc.

*Gloeosporium quercinum* Westend.
*Discula quercina* (Westend.) v. Arx

*Gloeosporium robergei* Desm.
*Monostichella robergei* (Desm.) Höhnel

*Gloeosporium salicis* Westend.
*Monostichella salicis* (Westend.) v. Arx

*Gnomonia platani* Kleb.
*Apiognomonia venata* (Sacc. & Speg.) Höhnel

*Gnomonia quercina* Kleb.
*Apiognomonia quercina* (Kleb.) Höhnel

*Gnomonia venata* (Sacc. & Speg.) Kleb.
*Apiognomonia venata* (Sacc. & Speg.) Höhnel

*Graphium ulmi* Schwarz
*Pesotum ulmi* (Schwarz) Crane & Schoknecht

*Gremmeniella abietina* (Lagerb.) Morelet
*Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard

*Hypoderma lineare* (Peck) Thüm.
*Bifusella linearis* (Peck) Höhnel

*Hypodermella ampla* (J. Davis) Dearn.
*Davisomycella ampla* (J. Davis) Darker

*Hypodermella mirabilis* Darker
*Lirula mirabilis* (Darker) Darker

*Hypodermella montivaga* (Petrak) Dearn.
*Lophodermella montivaga* Petrak

*Hypodermella nervata* Darker
*Lirula nervata* (Darker) Darker

*Hypodermella sulcigenum* (Rostrup) Tubeuf
*Lophodermella sulcigena* (Rostrup) Höhnel

*Hypoxylon pruinatum* (Klozt.) Cooker
*Hypoxylon mammatum* (Wahlenb.) J. Miller

*Kabatiella apocrypta* (Ell. & Ev.) v. Arx
*Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof

*Keithia thujina* E. Durand
*Didymascella thujiana* (E. Durand) Maire

*Lenzites saepiaria* (Wulfen : Fr.) Fr.
*Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten

*Leptothyrium populi* Lib.
*Marssonina populi* Lib.

*Leucocytospora leucostoma* (Pers.) Höhnel
*Cytospora leucostoma* (Pers. : Fr.) Fr.

*Leucocytospora nivea* (Hoffm.) Kobayashi
*Cytospora nivea* (Hoffm.) Fr.

*Lophodermium juniperi* (Grev.) Darker
*Lophodermium juniperum* (Fr.) de Not.

*Macrophoma tumefaciens* Shear
*Diplodia tumefaciens* (Shear) Zalasky

*Naemacyclus minor* Butin
*Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter

*Naemacyclus niveus* (Pers. : Fr.) Fuckel ex Sacc.
*Cyclaneusma niveum* (Pers. : Fr.) DiCosmo, Peredo & Minter

*Oedocephalum lineatum* Bakshi
*Spiniger meineckellus* (A.J. Olson) Stalpers

*Oedocephalum meineckellus* (A.J. Olson) Donk
*Spiniger meineckellus* (A.J. Olson) Stalpers

*Ophiostoma ulmi* (Buism.) Nannf.
*Ceratocystis ulmi* (Buism.) C. Moreau

*Phacidium abietinellum* Dearn.
*Nothophacidium abietinellum* (Dearn.) J. Reid & Cain

*Phacidium balsameae* J. Davis
*Sarcotrochila balsameae* (J. Davis) Korf

*Phacidium infestans* Karsten var. *abietis* Dearn.
*Phacidium abietis* (Dearn.) J. Reid & Cain

*Physalospora miyabeana* Fukushi
*Glomerella miyabeana* (Fukushi) v. Arx

*Polyporus applanatus* Gray
*Ganoderma applanatum* (Pers.) Pat.

*Polyporus balsameus* Peck
*Tyromyces balsameus* (Peck) Murrill

*Polyporus cinnabarinus* Jacq. : Fr.
*Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten

*Polyporus circinatus* Fr.
*Inonotus circinatus* (Fr.) Gilbertson

*Polyporus fumosus* (Fr.) Pers.
*Bjerkandera fumosa* (Fr.) Karsten

*Polyporus resinosus* (Fr.) Schrader
*Ischnoderma resinosum* (Schrader : Fr.) Karsten

*Polyporus schweinitzii* Fr.
*Phaeolus schweinitzii* (Fr.) Pat.

*Polyporus tomentosus* Fr.
*Inonotus tomentosus* (Fr.) Gilbertson

*Polyporus tulipiferae* (Schwein.) Overh.
*Irpex tulipiferae* (Schwein.) Fr.

*Polyporus volvatus* Peck
*Cryptoporus volvatus* (Peck) Hubbard

*Poria obliqua* (Pers. : Fr.) Karsten
*Inonotus obliquus* (Pers. : Fr.) Pilát

*Potebniamyces balsamicola* Smerlis var. *balsamicola* Smerlis
*Phacidium balsamicola* (Smerlis) DiCosmo, Nag Raj & Kendrick

*Potebniamyces coniferarum* (Hahn) Smerlis
*Phacidium coniferarum* (Hahn) DiCosmo, Nag Raj & Kendrick

*Pullularia pullulans* (de Bary) Berkhout
*Aureobasidium pullulans* (de Bary) Arnaud

*Rehmiellopsis balsameae* Waterman
*Delphinella balsameae* (Waterman) E. Müller

*Rehmiellopsis bohemica* Bubak & Kleb.
*Sydowia polyspora* (Bref. & Tav.) E. Müller

*Rhizina inflata* P. Karsten
*Rhizina undulata* Fr.

*Scirrhia acicola* (Dearn.) Siggers
*Mycosphaerella dearnessii* Barr

*Scleroderris lagerbergii* Gremmen
*Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard

*Sclerotinia fructicola* (Winter) Rehm
*Monilinia fructicola* (Winter) Honey

*Sclerotinia fuckeliana* (de Bary) Fuckel
*Botryotinia fuckeliana* (de Bary) Whetzel

*Septoria betulicola* Peck
*Septoria betulae* Pass.

*Sirococcus strobilinus* Preuss
*Sirococcus conigenus* (DC.) P. Cannon & Minter

*Sphaerella inaequalis* Cooke
*Venturia inaequalis* (Cooke) Winter

*Sphaeria cinnabarina* Tode
*Nectria cinnabarina* (Tode : Fr.) Fr.

*Sphaeria inquinans* (Tode) Fr.
*Massaria inquinans* (Tode : Fr.) de Not.

*Sphaeria macularis* Fr.
*Venturia macularis* (Fr.) E. Müller & v. Arx

*Steganosporium ovatum* (Pers. ex Mérat) S. Hughes
*Stegonsporium pyriforme* (Hoffm. : Fr.) Corda

*Stegonsporium pyriforme* (Hoffm. : Fr.) Corda
*Stegonsporium acerinum* Peck

*Uncinula salicis* (DC.) Winter
*Uncinula adunca* (Wallr. : Fr.) Lév.

*Uredo medusae* (Thüm.) Arthur
*Melampsora medusae* Thüm.

*Valsa fraxinina* Peck
*Valsa cypri* (Tul.) Tul.

*Xyloma acerinum* Pers.
*Rhytisma acerinum* (Pers.) Fr.

# PART IV

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*Apiognomonia veneta* (Sacc. & Speg.) Höhnel
*Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof
*Discula betulina* (Westend.) v. Arx
*Discula platani* (Peck) Sacc.
*Discula campestris* (Pass.) v. Arx
*Discula quercina* (Westend.) v. Arx
*Gnomonia caryae* Wolf var. *caryae*
*Gnomonia leptostyla* (Fr.) Ces. & de Not.
*Kabatiella borealis* (Ell. & Ev.) v. Arx

apiosporina witches' broom
*Apiosporina collinsii* (Schwein.) Höhnel

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*Spilocaea pomi* Fr.
*Venturia inaequalis* (Cooke) Winter

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*Armillaria mellea* (Vahl : Fr.) Kummer

ash leaf spot
*Mycosphaerella effigurata* (Schwein.) House

birch leaf spot
*Cylindrosporella betulae-papyriferae* (Dearn. & Overh.) v. Arx

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*Monostichella salicis* (Westend.) v. Arx

black canker of willow
*Colletotrichum crassipes* (Speg.) v. Arx
*Glomerella miyabeana* (Fukushi) v. Arx

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*Apiosporina morbosa* (Schwein.) v. Arx

black root stain
*Verticicladiella procera* Kendr.

blue stain
*Cordana pauciseptata* Preuss

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*Cytospora cincta* Sacc.

branch canker
*Leucostoma cincta* (Fr.) Höhnel

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*Fomitopsis pinicola* (Swartz : Fr.) Karsten

brown cubical rot
*Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten
*Phaeolus schweinitzii* (Fr.) Pat.
*Tyromyces balsameus* (Peck) Murrill

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*Coniophora puteana* (Schumacher : Fr.) Karsten
*Monilinia fructicola* (Winter) Honey

brown-spot needle blight
*Lecanosticta acicola* (Thüm.) H. Sydow
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*Caliciopsis pinea* Peck

canker
*Cornicullariella spina* (Berk. & Rav.) DiCosmo
*Zythia aurantiaca* (Peck) Sacc.

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*Discosporium populeum* (Sacc.) B. Sutton
*Dothiorella quercina* (Cooke & Ell.) Sacc.
*Hypoxylon cohaerens* Pers. : Fr.
*Scoleconectria curcurbitula* (Tode : Fr.) C. Booth
*Zythiostroma pinastri* (Karsten) Höhnel

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*Durandiella fraxini* (Schwein. : Fr.) Seaver

cedar-apple rust
*Gymnosporangium juniperi-virginianae* Schwein.

circinatus root rot
*Inonotus circinatus* (Fr.) Gilbertson

coccomyces canker
*Coccomyces strobi* J. Reid & Cain

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*Cronartium comandrae* Peck

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*Cytospora annulata* Ell. & Ev.
*Cytospora chrysosperma* (Pers. : Fr.) Fr.
*Cytospora kunzei* Sacc.
*Cytospora leucosperma* (Pers. : Fr.) Fr.
*Cytospora leucostoma* (Pers. : Fr.) Fr.
*Cytospora nivea* (Hoffm.) Fr.
*Cytospora pini* Desm.
*Cytospora pruinosa* (Fr.) Sacc.
*Leucostoma kunzei* (Fr.) Munk

*Leucostoma nivea* (Hoffm. : Fr.) Höhnel
*Leucostoma persoonii* (Nitschke) Höhnel
*Valsa ambiens* (Pers. : Fr.) Fr. spp. *ambiens*
*Valsa ambiens* (Pers. : Fr.) Fr. spp. *leucostomoides* (Peck) Spielman
*Valsa cypri* (Tul.) Tul. & C. Tul.
*Valsa pini* Alb. & Schwein. : Fr.
*Valsa sordida* Nitschke

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*Delphinella balsameae* (Waterman) E. Müller

dermea twig canker
*Dermea balsamea* (Peck) Seaver

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*Valsa friesii* (Duby) Fuckel
*Diplodina microsperma* (Johnston) B. Sutton

diplodina leaf spot
*Diplodina acerina* (Pass.) B. Sutton

diplodia twig dieback
*Diplodia mutila* (Fr.) Mont.

Dutch elm disease
*Ceratocystis ulmi* (Buism.) C. Moreau
*Pesotum ulmi* (Schwarz) Crane & Schoknecht

dwarf mistletoe
*Arceuthobium americanum* Nutt. ex Engel.

eastern dwarf mistletoe
*Arceuthobium pusillum* Peck

eastern gall rust
*Cronartium quercuum* (Berk.) Miyabe ex Shirai f. sp. *banksianae*

elm canker
*Botryodiplodia hypodermia* (Sacc.) Petrak

eutypella canker
*Eutypella parasitica* Davidson & Lorenz

fir broom rust
*Melampsorella caryophyllacearum* Schröter

fir-willow rust
*Melampsora abieti-capraearum* Tubeuf

fire blight
*Erwinia amylovora* (Burr.) Winslow et al.

fireweed rust
*Pucciniastrum epilobii* Otth

fomes root rot
*Heterobasidion annosum* (Fr.) Bref.
*Spiniger meineckellus* (A. Olson) Stalpers

gall rust
*Gymnosporangium cornutum* Arthur ex Kern

globose gall rust
*Gymnosporangium globosum* Farlow

gray mold
*Botryotinia fuckeliana* (de Bary) Whetzel
*Botrytis cineria* Pers. : Fr.

green stain
*Chlorosplenium aeruginascens* (Nyl.) Karsten

hemlock-poplar rust
*Melampsora abietis-canadensis* C.A. Ludwig ex Arthur

hemlock-willow rust
*Melampsora epitea* Thüm.

hickory leaf spot
*Marssonina juglandis* (Lib.) Magnus

hypoxylon canker
*Hypoxylon mammatum* (Wahlenb.) J. Miller

ink spot on aspen
*Ciborinia whetzelii* (Seaver) Seaver

Keithia needle blight
*Didymascella thujina* (E. Durand) Maire

larch needle cast
*Hypodermella laricis* Tubeuf
*Meria laricis* Vuill.

larch-poplar rust
*Melampsora medusae* Thüm.

larch-willow rust
*Melampsora paradoxa* Dietel & Holway

leaf blight
*Septoria betulae* Pass.

leaf-blister
*Taphrina caerulescens* (Mont. & Desm.) Tul.

leaf blotch
*Guignardia aesculi* (Peck) Stewart
*Phyllosticta sphaeropsoidea* Ell. & Ev.

leaf spot
*Atopospora betulina* (Fr.) Petrak
*Massaria inquinans* (Tode : Fr.) de Not.
*Monostichella robergei* (Desm.) Höhnel
*Phaeoramularia maculicola* (Romell & Sacc.) B. Sutton
*Phyllosticta minima* (Berk. & Curt.) Underw. & Earle
*Phyllosticta negundinis* Sacc. & Speg.
*Pleuroceras populi* G.E. Thompson
*Septoria populicola* Peck
*Sphaerognomonia carpinea* (Fr.) Potebnia
*Tubakia dryina* (Sacc.) B. Sutton
*Venturia acerina* Plakidas ex Barr
*Didymochora betulina* Höhnel

leaf spot of ash
*Asteroma fraxini* (Berk. & M.A. Curtis) Petrak

leaf spot of hickory
*Asteroma caryae* (Peck) B. Sutton

linospora leaf blight
*Linospora arctica* Karsten var. *helvetica* Rehm
*Linospora tetraspora* G.E. Thompson

maple dieback
*Crytodiaporthe hystrix* (Tode) Petrak

maple leaf spot
*Cladosporium humile* J. Davis

marssonina leaf spot
*Marssonina brunnea* (Ell. & Ev.) Magnus
*Marssonina castagnei* (Desm. & Mont.) Magnus
*Marssonina populi* (Lib.) Magnus
*Marssonina rhabdospora* (Ell. & Ev.) Magnus

nectria canker
*Nectria cinnabarina* (Tode : Fr.) Fr.
*Nectria galligena* Bresad.
*Tubercularia vulgaris* Tode : Fr.

needle blight
*Cytospora pinastri* Fr.
*Kabatina thujae* A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx) Morelet var. thujae
*Lophophacidium dooksii* Corlett & R. Shoem.
*Rhizosphaera kalkhoffii* Bubák
*Rhizosphaera pini* (Corda) Maubl.
*Sclerophoma pythiophila* (Corda) Höhnel
*Sydowia polyspora* (Bref. & Tav.) E. Müller

needle cast
*Bifusella linearis* (Peck) Höhnel
*Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter

*Cyclaneusma niveum* (Pers. : Fr.) DiCosmo, Peredo & Minter
*Isthmiella crepidiformis* (Darker) Darker
*Isthmiella faullii* (Darker) Darker
*Lirula mirabilis* (Darker) Darker
*Lirula nervata* (Darker) Darker
*Lophodermella montivaga* Petrak
*Lophodermella sulcigena* (Rostrup) Höhnel
*Lophodermium australe* Dearn.
*Lophodermium conigenum* (Brunaud) Hilitz
*Lophodermium juniperinum* (Fr.) de Not.
*Lophodermium nitens* Darker
*Lophodermium piceae* (Fuckel) Höhnel
*Lophodermium pinastri* (Schrader : Fr.) Chev.
*Lophodermium seditiosum* Minter, Staley & Millar

orange stalactiform blister rust
*Cronartium coleosporioides* Arthur f. sp. *coleosporioides*

pine needle rust
*Coleosporium asterum* (Dietel) Sydow
*Coleosporium pinicola* (Arthur) Arthur
*Coleosporium viburni* Arthur

pinewood nematode
*Bursaphelenchus xylophilus* (Steiner & Buhrer) Nickle

pink stain
*Ascocoryne sarcoides* (Jacq. ex Gray) J.W. Groves & D. Wilson
*Coryne dubia* (Pers.) Gray

plum pockets
*Taphrina communis* (Sadeb.) Gies.

poplar canker
*Cryptodiaporthe populea* (Sacc.) Butin

poplar leaf spot
*Drepanopeziza populi-albae* (Kleb.) Nannf.
*Drepanopeziza populorum* (Desm.) Höhnel

powdery mildew
*Phyllactinia guttata* (Wallr. : Fr.) Lév.
*Podosphaera clandestina* (Wallr. : Fr.) Lév.
*Uncinula adunca* (Wallr. : Fr.) Lév.

pullularia
*Aureobasidium pullulans* (de Bary) Arnaud

quince rust
*Gymnosporangium clavipes* (Cooke & Peck) Cooke & Peck

red band disease
*Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton var. *septospora*
*Mycosphaerella pini* Rostrup

red ring rot
*Phellinus pini* (Brot. : Fr.) A. Ames

rhabdocline needle cast
*Rhabdocline pseudotsugae* Sydow ssp. *pseudotsugae*

root and butt rot
*Ganoderma lucidum* (Curt. : Fr.) Karsten

root rot
*Calonectria kyotensis* Terashita
*Cylindrocladium floridanum* Sob. & C.P. Seym.

rough bark
*Diplodia tumefaciens* (Shear) Zalasky
*Keissleriella emergens* (Karsten) Bose

sap streak
*Ceratocystis coerulescens* (Münch) Bakshi
*Chalara ungeri* Sacc.

scleroderris canker
*Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard
*Brunchorstia pinea* (P. Karsten) Höhnel

septoria canker
*Septoria musiva* Peck

septoria leaf spot
*Septoria aceris* (Lib.) Berk. & R. Br.
*Mycosphaerella populicola* G.E. Thompson
*Mycosphaerella populorum* G.E. Thompson

shoot blight
*Pollaccia elegans* Servit
*Sirococcus conigenus* (DC.) P. Cannon & Minter
*Venturia macularis* (Fr.) E. Müller & v. Arx
*Venturia populina* (Vuill.) Fabric.

shoot blight of aspen
*Pollaccia radiosa* (Lib.) Bald. & Cif.

shot-hole
*Blumeriella jaapii* (Rehm) v. Arx
*Phloesporella padi* (Lib.) v. Arx

snow blight
*Lophophacidium hyperboreum* Lagerb.
*Nothophacidium abietinellum* (Dearn.) J. Reid & Cain
*Phacidium abietis* (Dearn.) J. Reid & Cain
*Phacidium balsamicola* (Smerlis) DiCosmo, Nag Raj & Kendrick
*Phacidium coniferarum* (Hahn) DiCosmo, Nag Raj & Kendrick
*Phacidium infestans* Karsten
*Sarcotrochila balsameae* (J. Davis) Korf
*Sarcotrochila piniperda* (Rehm) Korf

speckle tar spot
*Melasmia punctata* Sacc. & Roum.
*Rhytisma punctatum* (Pers.) Fr.

spruce broom rust
*Chrysomyxa arctostaphyli* Dietel

spruce cone rust
*Chrysomyxa pirolata* (Körn.) Winter

spruce needle rust
*Chrysomyxa ledi* (Alb. & Schwein.) de Bary var. *ledi* var. *cassandrae* (Peck & G.P. Clinton) Savile
*Chrysomyxa ledicola* (Peck) Lagerh.

sweet fern blister rust
*Cronartium comptoniae* Arthur

Swiss needle cast
*Phaeocryptopus gaeumannii* (Rohde) Petrak

tar spot
*Melasmia acerina* Lév.
*Melasmia salicina* Lév.
*Rhytisma acerinum* (Pers.) Fr.
*Rhytisma salicinum* (Pers.) Fr.

tar spot needle cast
*Davisomycella ampla* (J. Davis) Darker

tea pot fungus
*Rhizina undulata* Fr.

therrya canker
*Therrya fuckelii* (Rehm) Kujala

tip blight
*Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton

tomentosus root rot
*Inonotus tomentosus* (Fr.) Gilbertson

trichoderma
*Trichoderma viride* Pers. : Fr.

trunk rot
*Cryptoporus volvatus* (Peck) Hubbard
*Ischnoderma resinosum* (Schrader : Fr.) Karsten

twig and shoot blight
*Coryneum umbonatum* Nees ex Steudel
*Pseudovalsa longipes* (Tul.) Sacc.

twig blight
*Cenangium ferruginosum* Fr. : Fr.

twig canker
*Cytosporina ludibunda* (Sacc.) Sacc.
*Foveostroma abietinum* (Peck) DiCosmo

twig dieback
*Botryosphaeria stevensii* R. Shoem.

tympanis canker
*Tympanis hypopodia* Nyl.

walnut leaf spot
*Cylindrosporium juglandis* Wolf
*Mycosphaerella juglandis* Kessler

western gall rust
*Endocronartium harknessii* (J.P. Moore) Y. Hirats.

white mold
*Microstroma juglandis* (Bereng.) Sacc.

white mottled rot
*Fomes fomentarius* (Fr.) Kickx
*Ganoderma applanatum* (Pers. ex Gray) Pat.

white pine blister rust
*Cronartium ribicola* J.C. Fischer

white rot of hardwoods
*Bjerkandera fumosa* (Fr.) Karsten

white sap rot
*Irpex tulipiferae* (Schwein.) Fr.
*Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten

white spongy rot
*Inonotus obliquus* (Pers. : Fr.) Pilát
*Oxyporus populinus* (Schumacher : Fr.) Donk
*Phellinus everhartii* (Ell. & Gall.) A. Ames

white trunk rot
*Phellinus igniarius* (L. : Fr.) Quélet
*Phellinus tremulae* (Bondartsev) Bondartsev & Borisov

willow dieback
*Cryptodiaporthe salicella* (Fr.) Petrak

willow scab
*Pollaccia saliciperda* (Allescher & Tubeuf) v. Arx
*Venturia saliciperda* Nüesch

witches' broom on blueberry
*Pucciniastrum goeppertianum* (Kühn) Kleb.

verticillium wilt
*Verticillium albo-atrum* Reinke & Berth.
*Verticillium dahliae* Kleb.